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REQUEST FOR ACCESS OF ABANDONED APPLICATION UNDER 37 CFR 1.14(a)

In re Application of

WILLIAM STUBBY

OCT 20 1999

Application Number	Filed
07/337,566	10-4-13-89
Group Art Unit	Examiner

Paper No. H35

Assistant Commissioner for Patents
Washington, DC 20231

I hereby request access under 37 CFR 1.14(a)(3)(iv) to the application file record of the above identified ABANDONED application, which is: (CHECK ONE)

(A) referred to in United States Patent Number 54118752, column _____

(B) referred to in an application that is open to public inspection as set forth in 37 CFR 1.11, i.e., Application No. _____ filed _____ on page _____ of paper number _____

(C) an application that claims the benefit of the filing date of an application that is open to public inspection, i.e., Application No. _____ filed _____ or

(D) an application in which the applicant has filed an authorization to lay open the complete application to the public.

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Approved by: Brian Willingham

Unit: Patent Office

United States Patent [19]

Harari et al.

[11] Patent Number: **5,418,752**
 [45] Date of Patent: **May 23, 1995**

[54] FLASH EEPROM SYSTEM WITH ERASE SECTOR SELECT

[75] Inventors: Eliyahou Harari, Los Gatos; Robert D. Norman, San Jose; Sanjay Mehrotra, Milpitas, all of Calif.
 [73] Assignee: Sundisk Corporation, Santa Clara, Calif.
 [21] Appl. No.: 963,851
 [22] Filed: Oct. 20, 1992

Related U.S. Application Data

[62] Division of Ser. No. 337,566, Apr. 13, 1989, abandoned.

[51] Int. Cl.⁶ G11C 7/00
 [52] U.S. Cl. 365/218; 365/185;
 365/900

[58] Field of Search 365/185, 218, 900, 230.03

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system design", Computer Design, Mar. 1, 1989, pp. 30 and 32.

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[57] ABSTRACT

A system of Flash EEPROM memory chips with controlling circuits serves as non-volatile memory such as that provided by magnetic disk drives. Improvements include selective multiple sector erase, in which any combinations of Flash sectors may be erased together. Selective sectors among the selected combination may also be de-selected during the erase operation. Another improvement is the ability to remap and replace defective cells with substitute cells. The remapping is performed automatically as soon as a defective cell is detected. When the number of defects in a Flash sector becomes large, the whole sector is remapped. Yet another improvement is the use of a write cache to reduce the number of writes to the Flash EEPROM memory, thereby minimizing the stress to the device from undergoing too many write/erase cycling.

4 Claims, 5 Drawing Sheets

